national Application No PCT/IB2004/050970

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G11B7/125

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\,7\,$ G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Calegory °	Citation of document with helically	
Calegory	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/085463 A1 (MINEMURA HIROYUKI ET AL) 4 July 2002 (2002-07-04) paragraphs '0017! - '0019!, '0038! - '0066!	1–20
X	US 6 243 339 B1 (DUCHATEAU JOHAN P W B ET AL) 5 June 2001 (2001-06-05) column 1, line 15 - column 2, line 13	1,10
X	US 2002/036961 A1 (UEKI YASUHIRO ET AL) 28 March 2002 (2002-03-28) paragraph '0069!	1,10
X	EP 1 059 630 A (MATSUSHITA ELECTRIC IND CO LTD) 13 December 2000 (2000-12-13) paragraphs '0011! - '0047!	1,10
	-/	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.			
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filling date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed	 *T* later document published after the international fiting date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family 			
Date of the actual completion of the international search 5 October 2004	Date of mailing of the international search report 15/10/2004			
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Stemmer, M			

IN I ENIVATIONAL SEARCH REPURT

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Р,Х	WO 2004/001730 A (KONINKL PHILIPS ELECTRONICS NV ; LANGEREIS GERARDUS R (NL)) 31 December 2003 (2003-12-31) cited in the application the whole document	1,10
X	US 5 949 747 A (MIYASHITA AKIRA ET AL) 7 September 1999 (1999-09-07) column 17, line 3 - column 19, line 12	1,10
4	US 2002/136123 A1 (OGAWA TOSHIHIRO) 26 September 2002 (2002-09-26) paragraph '0069!	9,10,19, 20
A	EP 1 191 520 A (PIONEER CORP) 27 March 2002 (2002-03-27) paragraph '0078!	8,18

INTERNATIONAL SEARCH REPORT

Information on patent family members

national Application No PCT/IB2004/050970

				101/102004/0309/0			
Patent doc cited in searc			Publication date		Patent family member(s)		Publication date
US 2002	085463	A1	04-07-2002	US	2001043529	A1	22-11-2001
				EP	1033704		06-09-2000
				EP	0865035		16-09-1998
				JP	10320777		04-12-1998
				TW	382703		21-02-2000
				ÜS	6269062		31-07-2001
US 6243	339	B1	05-06-2001	AU	1171199	A	28-06-1999
				BR	9807557	Α	28-03-2000
				CA	2279858		17-06-1999
				CN	1117358	В	06-08-2003
				EP	0958575		24-11-1999
				HU	0003818		28-02-2001
				WO	9930316	A2	17-06-1999
				IL	131239		29-05-2003
				JP	2001511289		07-08-2001
				RU	2229171		20-05-2004
				TR	9901868		21-02-2000
				TW	430790		21-04-2001
US 2002	036961	A1	28-03-2002	JP	2002109739	A	12-04-2002
				CN	1345040		17-04-2002
EP 1059	630	Α	13-12-2000	EP	1059630		13-12-2000
-			•	US	6791926		14-09-2004
				CN	1114905		16-07-2003
				WO	0028535		18-05-2000
	•			JP.	2000200418		18-07-2000
				TW	457476	В	01-10-2001
				US	2004022151		05-02-2004
	·			US 	2004017752	A1	29-01-2004
WO 2004	001730	A	31-12-2003	WO	2004001730	A1	31-12-2003
US 5949	747	A	07-09-1999	JP	10069639	A	10-03-1998
US 2002	136123	A1	26-09-2002	JP	2002288831	Α	04-10-2002
				CN	1377030		30-10-2002
				TW 	512319	В	01-12-2002
	520	Α	27-03-2002	JP	2002100046		05-04-2002
EP 1191							
EP 1191				EP US	1191520 2002064109		27-03-2002 30-05-2002